

## Sine and Cosine Ratios

## What You'll Learn

- To use sine and cosine to determine side lengths in triangles.

## ... And Why

To use the sine ratio to estimate astronomical distances indirectly, as in Example 2.

## Check Skills You'll Need

For each triangle, find (a) the length of the leg opposite  $\angle A$  and (b) the length of the leg adjacent to  $\angle A$ .

- 1.
- $9^\circ$
- ; 12



- 2.



- 3.

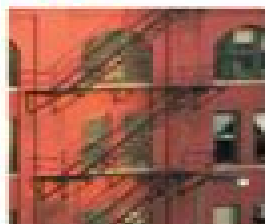


## Go for Help Lesson 8-3

**New Vocabulary** • sine • cosine • identity

## 1

## Using Sine and Cosine in Triangles



The tangent ratio, as you have seen, involves both legs of a right triangle. The sine and cosine ratios involve one leg and the hypotenuse.

$$\text{sine of } \angle A = \frac{\text{leg opposite } \angle A}{\text{hypotenuse}}$$

$$\text{cosine of } \angle A = \frac{\text{leg adjacent to } \angle A}{\text{hypotenuse}}$$

These equations can be abbreviated:

$$\sin A = \frac{\text{opposite}}{\text{hypotenuse}} \quad \cos A = \frac{\text{adjacent}}{\text{hypotenuse}}$$



## Real-World Connection

For an angle of a given size, the sine and cosine ratios are constant, no matter where the angle is located.

## EXAMPLE Writing Sine and Cosine Ratios

Use the triangle to write each ratio.

a.  $\sin F$       $\sin F = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{8}{17}$

b.  $\cos F$       $\cos F = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{15}{17}$

c.  $\sin G$       $\sin G = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{15}{17}$

d.  $\cos G$       $\cos G = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{8}{17}$



1a.  $\sin X = \frac{64}{80}$ ;  $\cos X = \frac{64}{80}$   
 $\sin Y = \frac{64}{80}$ ;  $\cos Y = \frac{64}{80}$



## Quick Check

1. Write the sine and cosine ratios for  $\angle X$  and  $\angle Y$ . **See right.**  
 b. **Critical Thinking** When does  $\sin X = \cos Y$ ? Explain.  
 $\sin X = \cos Y$  when  $\angle X$  and  $\angle Y$  are complementary.

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## Differentiated Instruction Solutions for All Learners

## Special Needs

Present the mnemonic device SOHCAHTOA for the definition of the three trigonometric ratios: Sine is Opposite over Hypotenuse; Cosine is Adjacent over Hypotenuse; Tangent is Opposite over Adjacent.

learning style: verbal

## Below Level

Have students draw and measure right triangles to make a table of sine and cosine values for the angles in the set  $\{10^\circ, 20^\circ, \dots, 80^\circ\}$ .

learning style: visual

## 1. Plan

## Objectives

- To use sine and cosine to determine side lengths in triangles.

## Examples

- Writing Sine and Cosine Ratios
- Real-World Connection
- Using the Inverse of Cosine and Sine

## Math Background

A unit circle has radius 1 and center (0,0) in the coordinate plane. For all real values of  $t$ , the point that is reached by traveling  $t$  radians from point (1,0) in a counterclockwise direction has coordinates  $(\cos t, \sin t)$ .

More Math Background: p. 414D

## Lesson Planning and Resources

See p. 414E for a list of the resources that support this lesson.

## Bell Ringer Practice

## Check Skills You'll Need

For intervention, direct students to:

## Writing Tangent Ratios

Lesson 8-3: Example 1  
 Extra Skills, Word Problems, Proof Practice, Ch. 8

# Reteaching 8 4 Sine And Cosine Ratios Answers

**DJ Losen**



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